

139976

Page 1

Accept

N900040100

Setup **Start** ***NS1***

Stop *NS2*

Start Date: 12/16/2015 **Start Qty:** 1.00 ***1***

Cust Item ID:

Required Date: 1/8/2016 **Req'd Qty:** 1.00 ***1***

Customer:

Reference:

Approvals: _____ Process Plan: SJK Date: 151216 Tooling: _____

Date:

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____

Date: _____

Stop *NR2*

[illegible]

Work Order ID 139976***139976***

Page 2

December 16, 2015 9:25:47 AM

Item ID: 646.4001

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015 Start Qty: 1.00

1

Cust Item ID:

Required Date: 1/8/2016 Req'd Qty: 1.00

1

Customer:

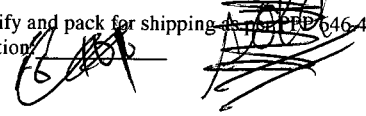
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping & pack PP 646.4001								
	Location: 								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

DAS
28
9-89
JAN 21 2016MCJ
FEB 01 2016

FEB 01 2016

MCJ

Picklist Print

December 16, 2015 9:25:51 AM

Page 1

Work Order ID: 139976

139976

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM
IPP REV:B 15.01.08 AS PER DWG REV.B DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
646.3301 *646 3301* Upper Cutter Assy	DAS 28 9-89	Manufactured	No				Each	7.0000	**	1			
Location Loc Qty Loc Code													
cck018 7													
136156 2													
136497 5													
646.3001 *646 3001* Lower Cutter Assy	DAS 28 9-89	Manufactured	No				Each	0.0000	**	1			
646.2910 *646 2910* Deflector	DAS 28 9-89	Manufactured	No				Each	8.0000	**	1			
Location Loc Qty Loc Code													
CCK050 8													
136136 8													
646.3810 *646 3810* Bracket	DAS 28 9-89	Manufactured	No				Each	10.0000	**	2			
Location Loc Qty Loc Code													
CCK106 10													
136186 10													

DAS
6
9-89
JAN 08 2016

DAS
6
9-89

DAS
6
9-89

DAS
6
9-89

~~646.9410~~

Picklist Print

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Work Order ID: 139976

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

139976

646 4001

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0332P

Purchased

No

Each

1,657.000

NAS1149F0332P

Washer

DAS
28
9-89

Location

Loc Qty

Loc Code

ST262

1657

m133709

1657

Each

1,830.000

MS21042L3

Purchased

No

MS21042L3

Nut

DAS
28
9-89

Location

Loc Qty

Loc Code

FP001

188

m133790

188

GA

279

m133790

279

ST304

1363

m133790

1363

646.3110

Manufactured

No

646 3110

Channel

DAS
28
9-89

Location

Loc Qty

Loc Code

cck020

8

136153

2

136492

6

Each

15.0000

646.3710

Manufactured

No

646 3710

Doubler

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK002

15

127550

15

per EON 10-23 mf

144
138

138
61

61
1

1

1

DAS
6
9-89

DAS
6
9-89

DAS
6
9-89

DAS
6
9-89

JAN 11 2016

Picklist Print

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Page 4

Work Order ID: 139976

139976

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

646.3210 Manufactured No

Each 10.0000 1

646 3210

Support

DAS
28
9-89

Location

Loc Qty

Loc Code

cck020

10

135549

1

136217

9

646.3713 Manufactured No

Each 6.0000 1

646 3713

Gusset

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

6

120631

6

MS24694-S51 Purchased No

Each 61.0000 5

MS24694-S51

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST284

61

m130928

61

AN3-13A Purchased No

Each 46.0000 1

AN3-13A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

CA

3

m129682

3

GA

20

m127070

20

ST349

23

m131305

23

DAS
27
9-89

DAS
6
9-89

DAS
27
9-89

DAS
6
9-89

DAS
27
9-89

JAN 11 2016

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Page 5

Work Order ID: 139976

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

139976

646 4001

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-4A Purchased No

Each 178.0000 10

AN3-4A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

over003

100

m133694

100

ST350

78

m129682

13

m133234

65

★★

CR3213-5-3 Purchased No

Each 116.0000 14

CR3213-5-3

Cherry Rivet

53

DAS
28
9-89

Location

Loc Qty

Loc Code

ST319

116

m130388

16

m132763

100

★★

MS20470AD5-5.5 Purchased No

Each 127.0000 8

MS20470AD5-5 5

Rivet

DAS
28
9-89

Location

Loc Qty

Loc Code

ST309

127

123425

127

Each

26.0000

★★

646.3711 Manufactured No

646 3711

Clip

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

26

120626

26

★★

DAS
27
9-89

DAS
6
9-89

DAS
6
9-89

DAS
27
9-89

DAS
6
9-89

DAS
27
9-89

DAS
6
9-89

DAS
27
9-89

JAN 11 2016

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Page 6

Work Order ID: 139976

139976

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

646.3712

Manufactured No

Each

16.0000

1

646.3712

Clip

DAS 6 27 9-89 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

cck105

16

101119

1

120630

15

646.3811

Manufactured No

Each

12.0000

1

646.3811

Radius Block

DAS 6 27 9-89 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

CCK106

12

122938

12

AN3-6A

Purchased No

Each

148.0000

2

AN3-6A

Bolt

DAS 6 27 9-89 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

over003

100

M133561

100

ST338a

48

M131305

48

MS24694-S55

Purchased No

Each

76.0000

1

MS24694-S55

Screw

DAS 6 27 9-89 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

ST289

76

m132803

76

JAN 11 2016

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Page 8

Work Order ID: 139976

139976

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-3A Purchased No

Each 300.0000 4

AN3-3A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

over003

104

m131624

104

ST350

196

m133483

96

m133833

100

**

DAS
27
9-89
6
9-89

646.3813 Manufactured No

Each 11.0000 1

646.3813

Strut Bracket

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK106

11

127453

1

132541

5

138267

5

**

DAS
6
9-89
27
9-89

MS20470AD5-7 Purchased No

Each 524.0000 3

MS20470AD5-7

Rivet

Location

Loc Qty

Loc Code

ST309

524

123425

524

**

DAS
27
9-89
JAN 11 2016

DAS
28
9-89

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Page 9

Work Order ID: 139976

139976

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

MS21047-3

Purchased

No

Each

155.0000

18

MS21047-3

Nut Plate

DAS
28
9-89

Location

Loc Qty

Loc Code

ST301

147

m133234

47

m133577

50

m133790

50

ST303

8

m130388

8

CCR264SS3-02

Purchased

No

Each

398.0000

36

CCR264SS3-02

Rivet, Cherry

DAS
28
9-89

Location

Loc Qty

Loc Code

ST321

398

M132317

4

M133134

2

M133316

192

M133790

200

AN3-5A

Purchased

No

Each

161.0000

2

AN3-5A

Bolt

Location

Loc Qty

Loc Code

FP001

30

m133686

30

ST350

131

m133686

131

DAS
28
9-89

JAN 11 2016

DAS
28
9-89

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Work Order ID: 139976

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

139976

646 4001

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

646.3715

Manufactured No

Each 5.0000

2

646 3715

Strut Doubler

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

5

135537

5

Each

128.0000

6

MS27039-1-12

Purchased No

MS27039-1-12

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

over006

100

m133483

100

ST285

28

m133031

28

Each

12.0000

1

646.3716

Manufactured No

646 3716

Gauge Bracket

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

12

133105

1

136122

3

136410

8

Each

58.0000

2

MS20426AD5-7

Purchased No

MS20426AD5-7

RIVET

DAS
28
9-89

Location

Loc Qty

Loc Code

ST311

58

101340

8

M132767

50

JAN . . .

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Page 11

Work Order ID: 139976

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

139976

646 4001

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

MS24694-S54

Purchased

No

Each

102.0000

2

MS24694-S54

SCREW

DAS
28
9-89

**

Location

Loc Qty

Loc Code

ST284

102

m133031

2

m133134

100

MS27039-1-21

Purchased

No

Each

396.0000

4

MS27039-1-21

Screw

DAS
28
9-89

**

Location

Loc Qty

Loc Code

over006

245

m127904

245

ST279

150

m127904

150

ST284

1

m126319

1

MS27039-1-20

Purchased

No

Each

190.0000

2

MS27039-1-20

Screw

DAS
28
9-89

**

Location

Loc Qty

Loc Code

ST284

190

124326

190

MS27039-1-19

Purchased

No

Each

134.0000

22

MS27039-1-19

Screw

DAS
28
9-89

**

Location

Loc Qty

Loc Code

GA

4

m124326

4

ST280

130

m133134

130

JAN 08 2016

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Page 12

Work Order ID: 139976

139976

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

646.3717

Manufactured No

Each

7.0000

1

DAS

6

9-89

646 3717

Doubler

DAS

28

9-89

**

Location

Loc Qty

Loc Code

cck105

7

120633

7

646.3718

Manufactured No

Each

0.0000

2

DAS

6

9-89

646 3718

Custom Washer

DAS

28

9-89

**

136223

646.3719

Manufactured No

Each

8.0000

2

DAS

6

9-89

646 3719

Doubler

DAS

28

9-89

**

Location

Loc Qty

Loc Code

cck105

8

120634

8

MS27039-1-10

Purchased No

Each

167.0000

2

MS27039-1-10

SCREW

**

JAN 08 2016

Location

Loc Qty

Loc Code

CA

41

m128635

41

GA

50

m129541

50

ST280

73

m132677

73

ST285

3

m123522

2

m132640

1

DAS

28

9-89

DAS

6

9-89

2

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Page 13

Work Order ID: 139976

139976

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-11A

Purchased

No

Each

154.0000

10

AN3-11A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

over003

150

m133363

50

m133561

100

ST349

4

m133234

4

**

DAS

6

9-89

DAS

27

9-89

600.0990

Purchased

No

Each

19.0000

1

600 0990

Magnabond 6398 Part A

07/2016

DAS
28
9-89

Location

Loc Qty

Loc Code

CA

12

M133800

12

PKG

7

M131589

7

2/11/2016

Each

20.0000

1

**

DAS

6

9-89

DAS

27

9-89

600.0991

Purchased

No

Each

20.0000

1

600 0991

MAGNOBOND 6398 PART B

07/2016

DAS
28
9-89

Location

Loc Qty

Loc Code

CA

12

m133800

12

PKG

8

m131589

8

2/11/2016

**

DAS

6

9-89

DAS

27

9-89

JAN 08 2016

Picklist Print

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Work Order ID: 139976

139976

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

600.1012 Purchased No Each 19.0000 1

600 1012

Sealant PR1425B2 (#654 sem)

DAS 27
6 9-89

*506116
exp date*

DAS
28
9-89

Location

Loc Qty

Loc Code

cck017

18

m133515

8

m133800

8

m133380

2

6/1/2016

cck018

1

m131364

1

10/30/2015

600.0129 Purchased No f 541.0000 8

600 0129

VHB TAPE 75935A651

DAS 27
6 9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK095

541

m127920

325

m131311

216

600.1013 Purchased No Each 875.0000 5

600 1013

021200-3M TAPE PRIMER 94 PRIMER 24216

DAS 27
6 9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK095

875

m131145

875

6/15/2016

646.3910 Manufactured No Each 4.0000 4

646 3910

Shim

JAN 07 2016

136278

DAS 27
6 9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK106

4

122951

4

JAN 14 2016

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Work Order ID: 139976

139976

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

646.3911

Manufactured No

Each

66.0000

1

646 3911

Shim

DAS
28
9-89

Location

Loc Qty

Loc Code

cck104

18

126229

18

CCK106

48

126059

48

**

DAS
6
9-89

DAS
27
9-89

646.3912

Manufactured No

Each

36.0000

4

646 3912

Shim

DAS
28
9-89

Location

Loc Qty

Loc Code

cck023a

10

124501

10

CCK106

26

123143

26

**

DAS
6
9-89

DAS
27
9-89

646.3913

Manufactured No

Each

105.0000

4

646 3913

Shim

DAS
28
9-89

Location

Loc Qty

Loc Code

cck023aq

81

126060

81

CCK106

24

124108

24

**

JAN 03 2016

DAS
6
9-89

DAS
27
9-89

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Work Order ID: 139976

139976

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-12A

Purchased

No

Each

109.0000

2

DAS
6
9-89

AN3-12A

Bolt

**

Location

Loc Qty

Loc Code

DAS
28
9-89

GA

5

m129682

5

ST349

104

m133064

16

m133234

88

MS27039-1-16

Purchased

No

Each

132.0000

MS27039-1-16

Screw

**

Location

Loc Qty

Loc Code

DAS
28
9-89

ST285

132

m130388

4

~~m131317~~

28

m132344

100

650.9201

Manufactured

No

Each

3.0000

650 9201

Eyelet Bracket Assembly

**

Location

Loc Qty

Loc Code

DAS
28
9-89

cck127

3

136204

3

AN44-5A

Purchased

No

Each

24.0000

AN44-5A

Eyebolt

**

Location

Loc Qty

Loc Code

DAS
28
9-89

ST339

24

m126193

4

m133134

8

m133790

12

DAS
6
9-89

JAN 08 2016

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Work Order ID: 139976

139976

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

AN665-34R

Purchased

No

Each

42.0000

2

AN665-34R

Clevis

DAS
28
9-89

Location

Loc Qty

Loc Code

ST330

42

M130388

4

M133483

8

M133523

30

AN4C7A

Purchased

No

Each

82.0000

2

AN4C7A

BOLT

DAS
28
9-89

Location

Loc Qty

Loc Code

OVER002

20

m133523

20

ST340

20

m133363

20

ST345

42

m127363

22

m133790

20

NAS1149F0432P

Purchased

No

Each

704.0000

4

NAS1149F0432P

WASHER

DAS
28
9-89

Location

Loc Qty

Loc Code

ST262

534

M132551

34

M133709

500

M128995

170

M132677

45

M132677

125

JAN 08 2016

646 9410

Shipped without
STIMB. AS per Email Attached.

DAS
28
9-89

MS24693 - C278 x 5 133998

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per
ECN
16-503
mf 16-1-13

JAN 23 2016

Picklist Print

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Work Order ID: 139976

139976

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

Each

3,335.000

2

MS21042L 4

Locknut

DAS
6 27
9-89 9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

FP001

137

m133363

137

GA

49

m127813

49

ST260a

92

m130799

56

m132262

36

ST303

2924

m133760

2924

ST305

133

m128300

8

m130388

4

m130922

97

m132123

24

AN316C4R

Purchased

No

Each

89.0000

2

AN316C4R

NUT

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST331

89

m133234

43

m133523

46

MS21042-3

MS21042L3

Purchased

No

Each

18.0000

2

MS21042-3

Nut / use MS21042L3

133790

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST304

18

M129682

18

Picklist Print

Page 19

December 16, 2015 9:25:53 AM

Work Order ID: 139976

139976

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 12/16/2015

Required Date: 1/8/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-08-13

Purchased

No

Each

344.0000

2

6

9-89

MS27039-08-13

Screw

**

DAS
28
9-89

Location

Loc Qty

Loc Code

ST277

340

124326

340

ST281

4

M130388

4

Each

33.0000

2

DAS

6

9-89

MS21042-08

MS21042L08

Purchased

No

MS21042-08

USE MS21042L08

**

DAS
28
9-89

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

Each

4,549.000

4

DAS

6

9-89

NAS1149FN832P

Purchased

No

NAS1149FN832P

Washer

**

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

103

M133316

103

ST260a

2500

M133769

2500

ST262

1946

M133709

1946

JAN 07 2016

December 16, 2015 9:25:53 AM

Shop Packet Print

Page 19

APICAL

INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO.

04731

SHEET 1 OF 2

DWG NO. 646.4000

REV: A

PREPARED BY J. SOTO

DATE: 11/04/2014

EFFECT ON DWG
☒ INC. ☐ UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY:

ENGR

MFG

QC

EFF.

NEXT ORDER

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

REASON: REVISED BOM. INCORPORATED ECN 03046 AND 03079.

34-20151216 139976

76	A	601.2764	4	4	WASHER	NAS1149FN832P	
75	A	601.2973	2	2	LOCKNUT	MS21042-08	
74	A	601.2988	2	2	SCREW	MS27039-0813	
73	A	601.2943	2	2	LOCKNUT	MS21042-3	
72	A	601.3128	2	2	NUT	AN316C4R	
71	A	601.3209	2	2	LOCKNUT	MS21042L4	
70	A	601.2638	4	4	WASHER	NAS1149F0432P	
69	A	601.2669	2	2	BOLT	AN4C7A	
68	A	601.3119	2	2	CLEVIS	AN665-34R	
67	A	601.3121	2	2	EYE BOLT	AN44-57	
66	A	650.9201	2	2	EYE BRACKET ASSY		
51	R	601.2926	10	10	BOLT	AN3-11A	
12	R	601.1624	53	61	LOCKNUT	MS21042L3	
11	R	601.1607	120	138	WASHER	NAS1149F0332P	
8	R	647.7703	2	2	STRUT ASSY		
7	R	647.0112	2	2	STRUT BRACKET		
F/N	TC	PART NUMBER	.4003	.4001			
		QTY			DESCRIPTION	MATERIAL	SPECIFICATION

DOCUMENTS EFFECTED:

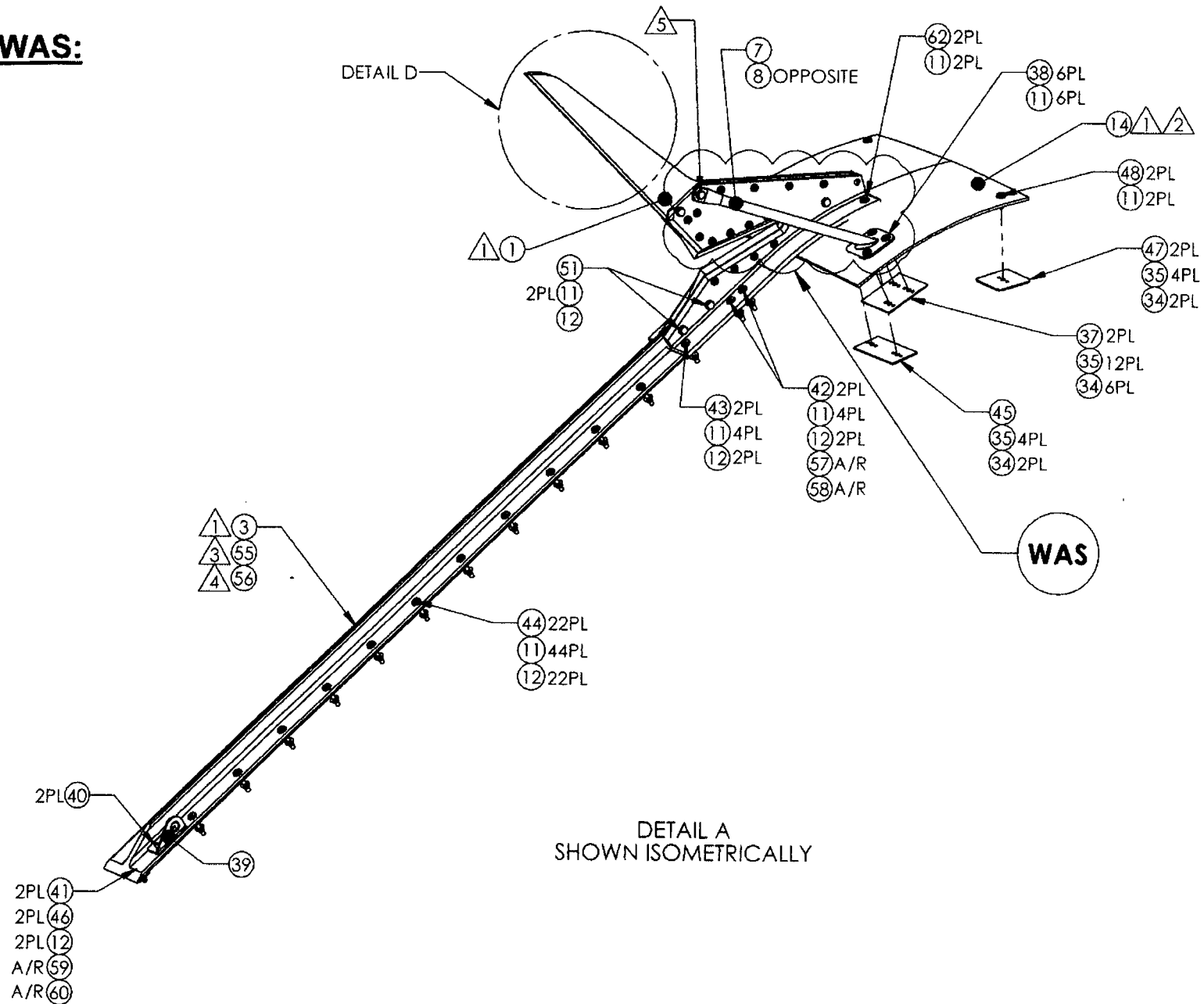
☐ MDL ☒ INSTALL INSTRUCTIONS ☒ ICA ☐ FMS ☒ BOM

CHANGE CATEGORY

☐ MAJOR ☒ MINOR

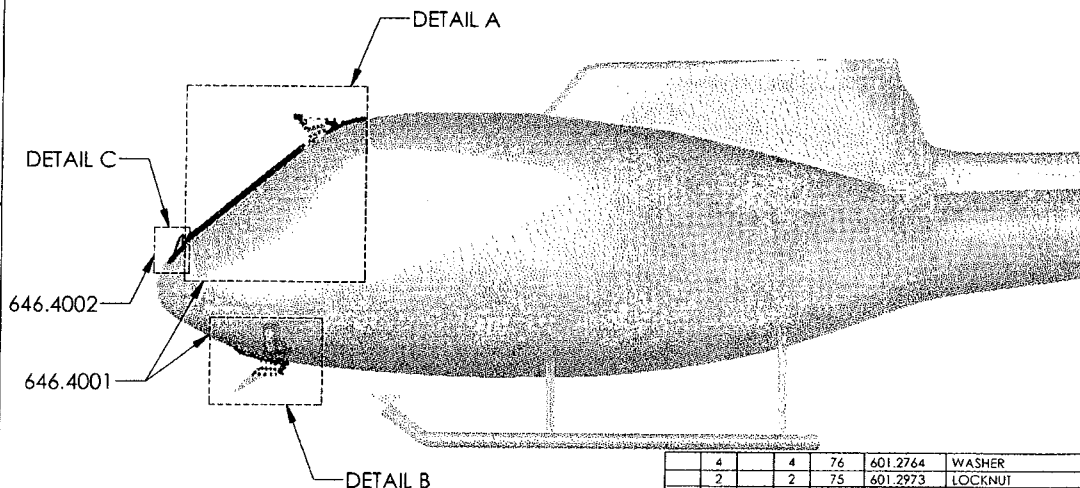
DER REVIEW REQUIRED

☐ YES ☒ NO

SHEET 2 WAS:

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECNS 02199, 02351, 02719 & 02765	02/08/2010	P. BRAVO
B	INCORPORATED ECN 03046, 03079 & 04731	11/04/2014	P. BRAVO

- ① AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES
- ② INSTALL F/N 14 WITH F/N 52 & 53
- ③ 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR : MCMMASTER-CARR P/N 75935A651
- ④ 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE
VENDOR: R.S. HUGHES P/N 021200-24216
- ⑤ REUSE FASTENERS FROM F/N 1
- ⑥ USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT
- ⑦ AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ONTO F/N 1



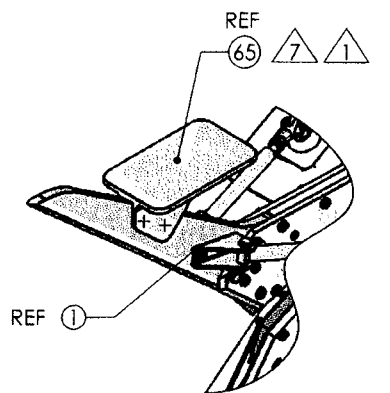
	QTY	UNIT	PART #	DESCRIPTION	MATL	SPEC
	4		76	601.2764 WASHER	NAS1149FNB32 P	
	2	2	75	601.2973 LOCKNUT	MS21042-08	
	2	2	74	601.2988 SCREW	MS70329-0813	
	2	2	73	601.2943 LOCKNUT	MS21042-3	
	2	2	72	601.3128 NUT	AH4315C-4R	
	2	2	71	601.3209 LOCKNUT	MS21042-4	
	4	4	70	601.2638 WASHER	NAS1149FD432 P	
	2	2	69	601.2669 BOLT	AH4C74	
	2	2	68	601.3119 CLEVIS	AH465-34R	
	6	6	67	601.3121 EYE BOLT	AH4A-SA	
	2	2	66	650.9201 EYE BRACKET ASSY		
REF	REF	REF	65	447.5701 GPS MOUNT KIT		
	6	6	64	601.3151 WASHER	NAL149FB32P	
	2	2	63	601.2911 SCREW	MS24494S53	
	2	2	62	601.2637 SCREW	MS20329-1-16	
	1	1	60	646.3913 SHIM	AH3-12A	
	4	4	59	646.3912 SHIM		
	1	1	58	646.3911 SHIM		
	4	4	57	646.3910 SHIM		
	5	5	56	600.1013 PRIMER		
4004	4003	4002	4001	FIND # PART # DESCRIPTION MATL SPEC		

8 FT		8 FT		55		600.0129		VHB TAPE		PR-1423 CLASS B	
1	1	1	1	54	600.1012	SEALANT					
				53	600.0991	MAGNOBOND 6398 PART B					
				52	600.0990	MAGNOBOND 6398 PART A					
	10		10	51	601.2826	BOLT					
				50	646.3814	WIPER BRACKET					
		2	2	49	601.2910	SCREW				MS27039-1-18	
2				2	48	601.1365		SCREW		MS27039-1-10	
2				2	47	646.3719		DOUBLER			
		2	2	46	646.3718	CUSTOM WASHER					
1				1	45	646.3717		DOUBLER			
	22	2	22	44	601.1948	SCREW				MS27039-1-19	
	2		2	43	601.1952	SCREW				MS27039-1-20	
		4	4	42	601.1956	SCREW				MS27039-1-21	
	2		2	41	601.2829	SCREW				MS24694554	
	2		2	40	601.2831	RIVET				MS20426AD5-7	
	1		1	39	646.3716	GAUGE BRACKET					
	6		6	38	601.1953	SCREW				MS27039-1-12	
2				2	37	646.3715		STRUT DOUBLER			
	2		2	36	601.2824	BOLT				AN3-5A	
36				36	601.2277	RIVET				CCPM455-302	
18				34	600.0795	NUT/PLATE				MS21047-3	
3				33	601.2365	RIVET				MS20470AD5-7	
1				32	646.3813	STRUT BRACKET					
4				31	601.2822	BOLT				AN3-3A	
2				30	646.3812	GUSSET BRACKET					
8				29	601.2564	RIVET				MS20470AD5-6	
1				1	28	646.3714		GUSSET			
	1		1	27	646.3610	FILLER					
		1	1	26	601.2830	SCREW				MS24694555	
	2		2	25	601.2825	BOLT				AN3-6A	
	1		1	24	646.3811	RADIUS BLOCK					
	1		1	23	646.3712	CLIP					
	1		1	22	646.3711	CLIP					
8			8	21	601.2832	RIVET				MS20470AD5-5	
14			14	20	601.2020	RIVET				CR3213-5-3	
10			10	19	601.2823	BOLT				AN3-4A	
	1		1	18	601.2827	BOLT				AN3-13A	
	5		5	17	601.2912	SCREW				MS24694551	
1			1	16	646.3713	GUSSET					
1			1	15	646.3710	SUPPORT					
1			1	14	646.3710	DOUBLER					
	1		1	13	646.3110	CHANNEL					
6	53	6	61	12	601.1624	LOCKNUT				MS21042L3	
18	120	16	138	11	601.1607	WASHER				NAS 14490333P	
			1	10	646.3410	LH WIPER DEFLECTOR					
				9	646.3411	RH WIPER DEFLECTOR					
	2		2	8	647.7703	STRUT ASSY					
	2		2	7	647.0112	STRUT BRACKET					
	1		1	6	646.3511	STRUT					
	1		1	5	646.3510	STRUT					
2			2	4	646.3810	BRACKET					
	1		1	3	646.2910	DEFLECTOR					
	1		1	2	646.3001	LOWER CUTTER ASSY					
	1		1	1	646.3301	UPPER CUTTER ASSY					
X					646.4004	FIXED PROVISIONS KIT					
	X				646.4003	CABT CUTTERS TO W/ACCU FRES					
		X			646.4002	AS330 WIPER DEFLECTOR KIT					
			X		646.4001	AS330 CABLE CUTTERS KIT					
4004	4003	4002	4001	FIND #	PART #	DESCRIPTION		MAT'L		SPEC.	

ORIGINAL DATE (MO-DA-YR) 06-27-08	
DRAWN BY S. HUFF	CHECKER P. BRAVO
DRAWING APPROVAL P. BRAVO 06-27-08	
CONTRACT No.	

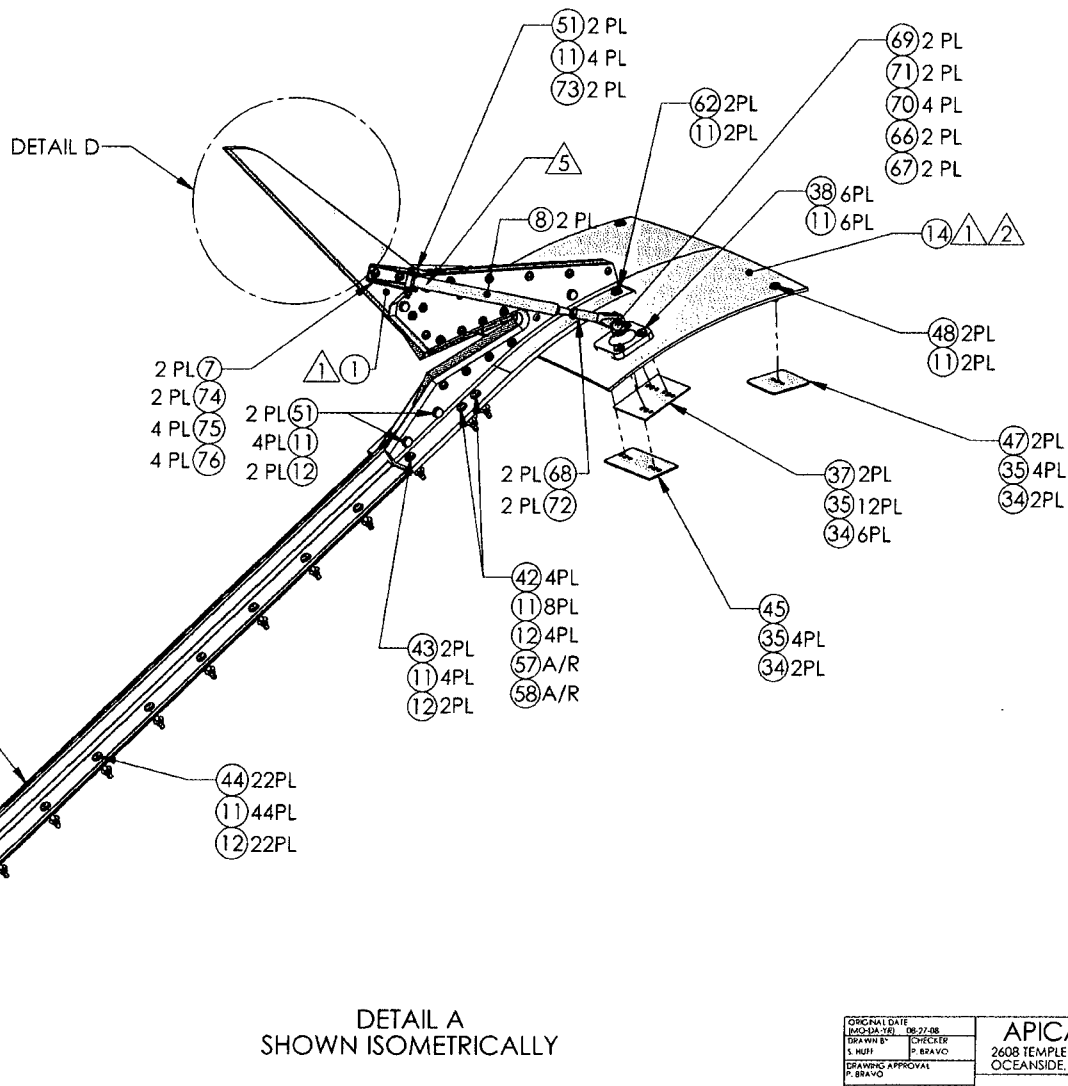
APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300			
AS350 CABLE CUTTERS KIT			
SEE SCALE	CAGE CODE 07M26	DWG. NO. 646.4000	REV. B
SCALE: NONE			

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DETAIL D
TYPICAL GPS MOUNT KIT INSTALLATION

DETAIL D

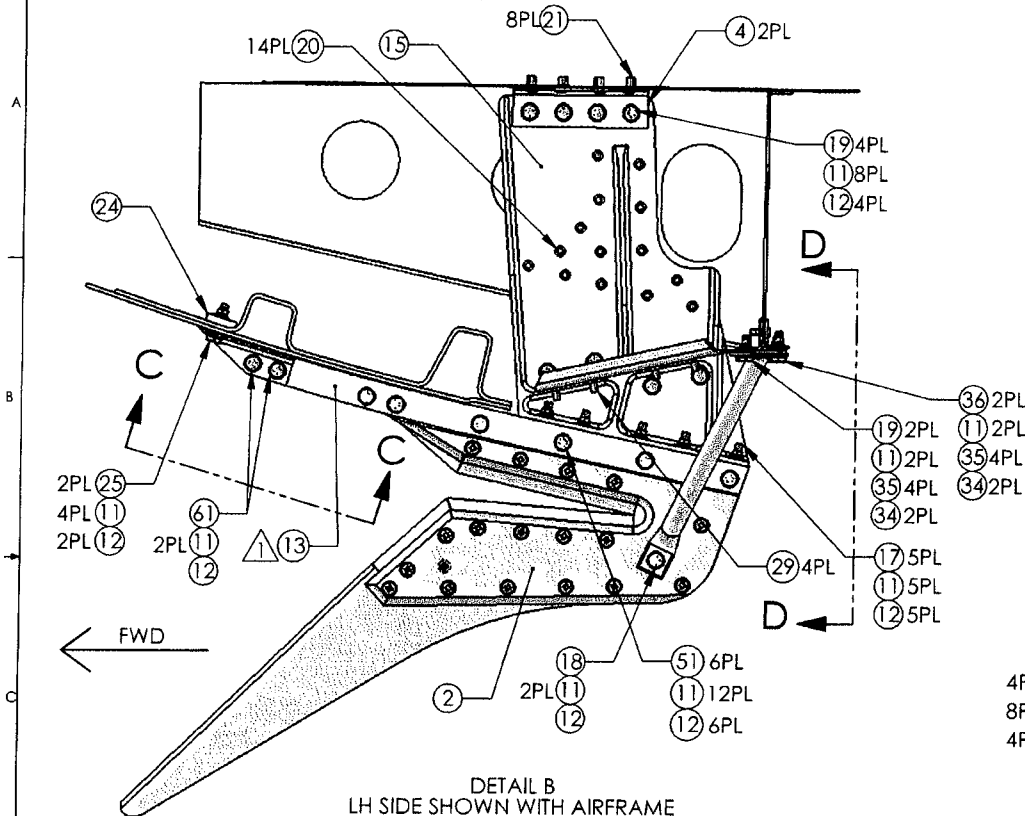


DETAIL A
SHOWN ISOMETRICALLY

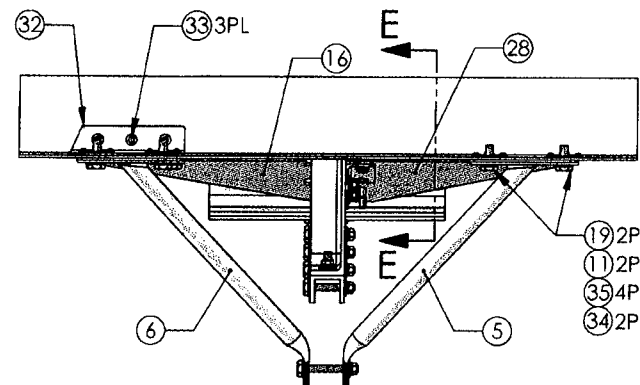
ORIGINAL DATE 10/27/08		APICAL INDUSTRIES	
DRAWN BY S. HUFF		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKED BY P. BRAVO		AS350 CABLE CUTTERS KIT	
DRAWING APPROVAL P. BRAVO		CAGE CODE 07M26	
CONTRACT NO.		DWG. NO. 646.4000	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS 1/16" 3 PLACE DECIMALS 0.005 ANGLES 1/2°		REV. B	
SCALE: NONE		SHEET 2 OF 4	

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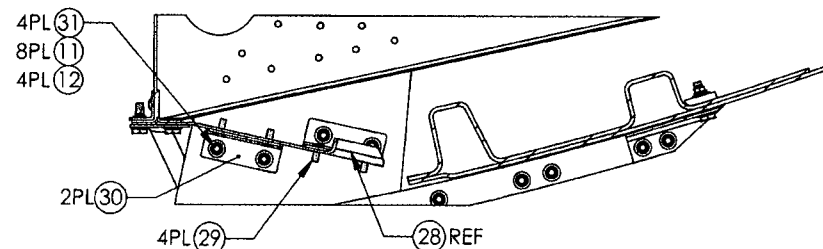
REVIEWS			
REV.	DESCRIPTION	DATE	APPROVED



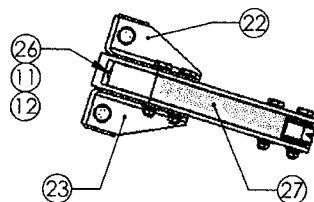
DETAIL B
LH SIDE SHOWN WITH AIRFRAME



SECTION D-D
CUTTER HIDDEN FOR CLARITY



SECTION E-E

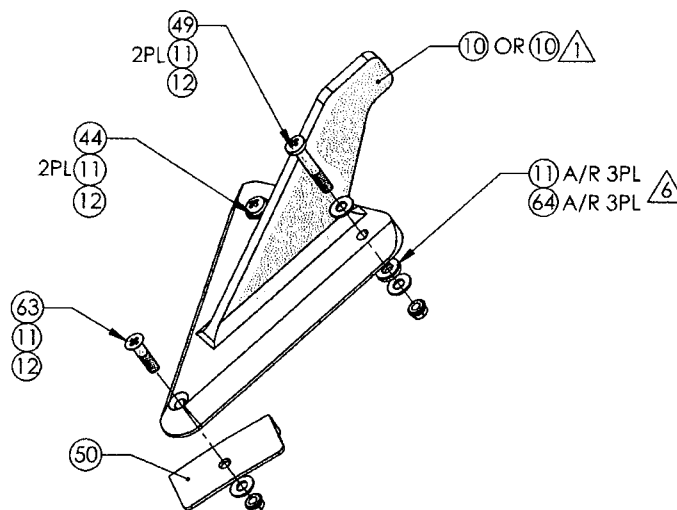


SECTION C-C

ORIGINAL DATE 10-23-88		APICAL INDUSTRIES	
DESIGNER S. HUFF		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL P. BRAVO		AS350 CABLE CUTTERS KIT	
CONTRACT NO.		SEE CAGE CODE	REV
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		B 07M26	B
DWG. NO.		646.4000	
SCALE		NONE	SHEET 3 OF 4

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



DETAIL C
LH SHOWN EXPLODED
RH OPPOSITE

ORIGINAL DATE: 08-27-08 DRAWN BY: S. HUFF CHECKED BY: P. BRAVO DRAWING APPROVAL: P. BRAVO CORRECTED NO.	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300		
AS350 CABLE CUTTERS KIT			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°	SHEET	CAGE CODE 07M126	QWC NO. 646.4000
			REV B
	SCALE: NONE		
	SHEET 4 OF 4		

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPRESS WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.

NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.
- 2 INSTALL F/N 14 WITH F/N 52 & 53.
- 3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMMASTER-CARR P/N 75935A651.
- 4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE.
VENDOR: R.S. HUGHES P/N 021200-24216.
- 5 REUSE FASTENERS FROM F/N 1.
- 6 USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.
- 7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.
- 8 INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 78 SCREW IN PLACE OF F/N 17 SCREW.
- 9 NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 & F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

5	5	5	78	601.3875	SCREW	MS24694554				
1	1	1	77	646.9410	SHIM	MS24694554				
	4	4	76	601.2764	WASHER	MS2104208				
	2	2	75	601.2973	LOCKNUT	MS2104208				
	2	2	74	601.2988	SCREW	MS27039-0813				
	2	2	73	601.2943	LOCKNUT	MS21042-3				
	2	2	72	601.3128	NUT	AN316C4R				
	2	2	71	601.3209	LOCKNUT	MS21042-4				
	4	4	70	601.2638	WASHER	MS2104208				
	2	2	69	601.2669	BOLT	AN4C7A				
	2	2	68	601.3119	CLEVIS	AN665-34R				
	2	2	67	601.3121	EYE BOLT	AN44-5A				
	2	2	66	650.9201	EYE BRACKET ASSY					
	REF	REF	65	647.5901	OPS MOUNT KIT	MS24694553				
		2	64	601.3161	WASHER	MS2104208				
		2	63	601.2911	SCREW	MS24694553				
	24	24	62	601.2637	SCREW	MS27039-1-16				
2	2	2	61	601.2763	BOLT	AN3-12A				
	1	1	60	646.3913	SHIM					
	4	4	59	646.3912	SHIM					
	1	1	58	646.3911	SHIM					
	4	4	57	646.3910	SHIM					
	5	5	56	600.1013	PRIMER					
	8 FT	8 FT	55	600.0129	VHB TAPE					
	1	1	54	600.1012	SEALANT	PR-1426 CLASS B				
	1	1	53	600.0991	MAGNOBOND 6398 PART B	MS24694553				
	1	1	52	600.0990	MAGNOBOND 6398 PART A	MS27039-1-10				
6	10	10	51	601.2826	BOLT	AN3-11A				
		2	50	646.3814	WIPER BRACKET					
		2	49	601.2910	SCREW	MS27039-1-18				
	2	2	48	601.1365	SCREW	MS27039-1-10				
	2	2	47	646.3719	DOUBLER					
	2	2	46	646.3718	CUSTOM WASHER					
	1	1	45	646.3717	DOUBLER					
	22	22	44	601.1948	SCREW	MS27039-1-19				
	2	2	43	601.1952	SCREW	MS27039-1-20				
	4	4	42	601.1956	SCREW	MS27039-1-21				
4006	4005	4004	4003	4002	4001	FIND #	PART #	DESCRIPTION	MATL	SPEC.

REV	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECH 02199, 02231, 02719 & 02745	02/08/2010	P. BRAVO
B	INCORPORATED ECH 03045, 03079 & 04731	11/04/2014	P. BRAVO
C	INCORPORATED ECH 05098	09/07/2015	P. BRAVO

		2		2	41	601.2829	SCREW	MS24694554		
		2		2	40	601.2831	RIVET	MS20426AD5-7		
		1		1	39	646.3716	GAUGE BRACKET			
		6		6	38	601.1953	SCREW	MS27039-1-12		
	2			2	37	646.3715	STRUT DOUBLER			
	2		2		36	601.2824	BOLT	AN3-5A		
12	36			36	35	601.2277	RIVET	CC894433-3-02		
6	18			18	34	600.0795	NUTPLATE	MS21047-3		
3	3			3	33	601.2565	RIVET	MS20470AD5-7		
1	1			1	32	646.3813	STRUT BRACKET			
4	4			4	31	601.2822	BOLT	AN3-3A		
2	2			2	30	646.3812	GUSSET BRACKET			
8	8			8	29	601.2564	RIVET	MS20470AD5-6		
1	1			1	28	646.3714	GUSSET			
	1	1		1	27	646.3610	FILLER			
	3	3		3	26	601.2830	SCREW	MS24694555		
	2	2		2	25	601.2825	BOLT	AN3-6A		
	1	1		1	24	646.3811	RADIUS BLOCK			
	1	1		1	23	646.3712	CLIP			
	1	1		1	22	646.3711	CLIP			
8	8			8	21	601.2832	RIVET	MS20470AD5-5-3		
14	14			14	20	601.2020	RIVET	CR3213-5-3		
4	6	4	6	10	19	601.2823	BOLT	AN3-4A		
	1	1	1	1	18	601.2827	BOLT	AN3-13A		
	5		5	5	17	601.2912	SCREW	MS24694551		
1	1			1	16	646.3713	GUSSET			
1	1			1	15	646.3210	SUPPORT			
		1		1	14	646.3710	DOUBLER			
	1	1		1	13	646.3110	CHANNEL			
14	10	8	53	6	61	12	601.1624	LOCKNUT	MS210421-3	
16	32	18	120	16	144	11	601.1607	WASHER	MS2149F0332P	
				1	10		646.3411	LH WIPER DEFLECTOR		
				1	9		646.3411	RH WIPER DEFLECTOR		
		2		2	8		647.7703	STRUT ASSY		
		2		2	7		647.0112	STRUT BRACKET		
	1	1		1	6		646.3511	STRUT		
	1	1		1	5		646.3510	STRUT		
2		2		2	4		646.3810	BRACKET		
		1		1	3		646.2910	DEFLECTOR		
	1	1		1	2		646.3301	LOWER CUTTER ASSY		
		1		1	1		646.3301	UPPER CUTTER ASSY		
X							646.4006	LOWER CUTTER FIXED PROVISIONS		
	X						646.4005	LOWER CUTTER REMOVABLE PROVISIONS		
		X					646.4004	FIXED PROVISIONS KIT		
			X				646.4003	CABLE CUTTERS KIT WITHOUT FIXED PROVISIONS		
				X			646.4002	AS350 WIPER DEFLECTOR KIT		
					X		646.4001	AS350 CABLE CUTTERS KIT		
4006	4005	4004	4003	4002	4001	FIND #	PART #	DESCRIPTION	MATL	SPEC.

QTY	NEXT ASSY (S)	ORIGINAL DATE (DD-MY-YY) 08-27-08	DATE (DD-MY-YY) 08-27-08	DESIGNED BY S. HUFF	DESIGNED BY P. BRAVO
		DRAWING APPROVAL P. BRAVO		CONTRACT NO.	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE 2 PLACE DECIMALS ±.010 ANGLES ±.5°		SHEET NO. 646.4000 SCALE NONE	

DART 3030 ENTERPRISE CT., SUITE A
VISTA, CA 92081
(760) 724-5300
APICAL INDUSTRIES, INC.
AS350 CABLE CUTTERS KIT
SHEET 1 OF 5

David Duval

From: Mario Poulin
Sent: January-07-16 2:02 PM
To: David Duval
Subject: FW: 646.9410 Shim

Fyi,

Not a show stopper for now, CCK350 (Shim)

Mario,

From: Marc Bellavance
Sent: Thursday, January 07, 2016 1:40 PM
To: Mario Poulin <mpoulin@dartaero.com>
Subject: FW: 646.9410 Shim

Hey Mario,

Here's your answer. I'm thinking that if a customer is requiring a shim we can follow up with a no charge shim or advise that he fabricate his own.

Marc

From: Jacob Becker
Sent: January-07-16 1:12 PM
To: Marc Bellavance <mbellavance@dartaero.com>; Lisa Mansfield <lmansfield@dartaero.com>
Cc: Mario Poulin <mpoulin@dartaero.com>; Sian Willems <swillems@dartaero.com>
Subject: RE: 646.9410 Shim

It's not a show stopper. Currently we advise the customer that they need to shim it if OEM provisions are installed. I have just now included the shim in the kit.

Jacob

From: Marc Bellavance
Sent: Thursday, January 07, 2016 8:59 AM
To: Lisa Mansfield <lmansfield@dartaero.com>; Jacob Becker <JBecker@dartaero.com>
Cc: Mario Poulin <mpoulin@dartaero.com>; Sian Willems <swillems@dartaero.com>
Subject: 646.9410 Shim

Lisa/Jacob,

You guys have introduced this laminated aluminum shim as part of our AS350 CCK kits for use when installing in conjunction with OEM fixed provisions. Seems like we're having a hard time sourcing this part and/or with its manufacturing (cutting this on the waterjet to 0.50" wide is far from ideal). Is this something you guys have in stock or can acquire easily? Also, is this a show stopper for all orders in WIP and others about to ship?